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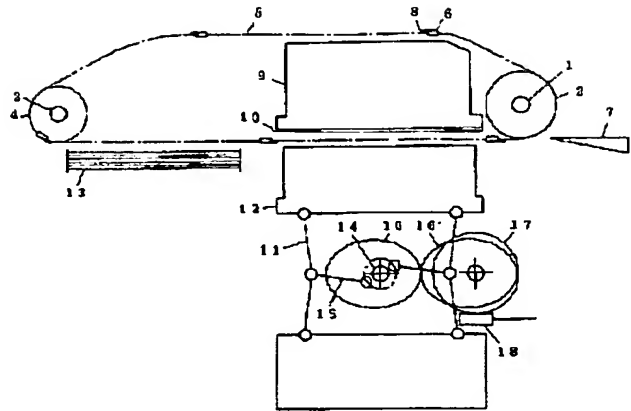
APPLICATION DATE : 01-09-95  
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TITLE : AUTOMATIC PLATE PUNCHER



**ABSTRACT :** **PROBLEM TO BE SOLVED:** To give proper time distribution to the passage of a paper biting rod of a paper feeding mechanism in high speed running without causing troubles like paper unruliness in the transport of sheets of paper.

**SOLUTION:** An automatic plate punching apparatus is composed of a punching machine provided with a lower movable base 12 moved vertically by a toggle mechanism expanded and contracted through a crankshaft 14 below an upper fixed base 9 having a trimming die mounted to the lower surface and a paper feeding mechanism formed of an endless chain 5 to send punched sheets of paper from a paper feeding part 7 through the lower side of the trimming die 10 to a paper ejecting part. A first non-circular gear 16 is secured fixedly to the crankshaft 14 and a second non-circular gear 16' meshing with the gear 16 is fixed to a worm 17, so that the crankshaft 14 is rotated with unequal speed through two non-circular gears 16, 16' by the worm 17.

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